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Test bank:

1.	The idea that various brain regions have particular functions is known as A) phrenology. B) neural communication. C) localization of function. D) plasticity.
2.	An axon transmits messages the cell body and a dendrite transmits messages the cell body. A) away from; toward B) away from; away from C) toward; away from D) toward; toward
3.	Fo excite or inhibit an action potential in a receiving neuron, a neurotransmitter must cross the A) axon. B) synaptic gap. C) myelin sheath. D) endocrine glands.
4.	The release of to muscle cell receptors triggers muscle contractions. A) ACh B) serotonin C) dopamine D) adrenaline
5.	Depressed mood states are linked to levels of serotonin and levels of norepinephrine. A) low; low B) high; high C) low; high D) high; low

6. A drug molecule that increases the release of a neurotransmitter into the synaptic gap is a(n)

- A) glutamate.B) steroid.

- C) agonist.D) opiate.

7.	7. The peripheral nervous system consists of				
	A)	interneurons.			
		the spinal cord.			
	C)	endocrine glands.			
	D)	sensory and motor neurons.			
8.		carry messages from the body's tissues and sensory receptors to the brain and			
	spin	al cord for processing.			
		Sensory neurons			
	,	Motor neurons			
	,	Interneurons			
	D)	ANS			
9.	The	autonomic nervous system most directly controls			
	A)	speech production.			
		thinking and memory.			
		movement of the arms and legs.			
	D)	bladder contractions.			
10.	The	two nervous systems that work together to keep us in a state of homeostasis are the			
		nervous systems.			
	A)	sympathetic and parasympathetic			
	B)	• 1			
		parasympathetic and autonomic			
	D)	somatic and autonomic			
11.	Wh	en the nervous system is active, the pupils contract, heartbeat			
	slov	vs, digestion is stimulated, and the bladder contracts.			
	A)	autonomic			
	B)	sympathetic			
	C)	somatic			
	D)	parasympathetic			
12.	Altl	nough Ron has no genital sensations, he is capable of an erection if his genitals are			
	stin	nulated. Ron's experience is most indicative of a(n)			
	A)	morphine antagonist.			
	B)	severed spinal cord.			
	C)	synaptic gap.			
	D)	all-or-none response.			

13.	The	release of epinephrine and norepinephrine	blood pressure and
	bloo	od sugar levels.	
	A)	raises; raises	
		lowers; lowers	
	C)	raises; lowers	
	D)	lowers; raises	
14.	Тол	monitor the electrical activity in the brain that	is triggered by hearing one's own
	nam	ne, researchers would make use of a(n)	
	A)	MRI.	
	B)	PET scan.	
	C)	EEG.	
	D)	brain lesion.	
15.	You	ar life would be most immediately threatened	if you suffered destruction of the
	A)	amygdala.	•
	,	hippocampus.	
	C)	cerebellum.	
	D)	medulla.	
16.	Stin	mulation of the reticular formation will cause	a
	A)	sleeping cat to awaken.	
	B)		
	C)		
	D)	thirsty cat to drink.	
17.	Wh	en people were shown happy and angry faces	, their was found to
	acti	vate in response to the angry faces.	
	A)	thalamus	
	B)	hypothalamus	
	C)	basal ganglia	
	D)	amygdala	
18.	Wh	ich neural center in the limbic system plays a	n important role in emotions such as
	fear	and rage?	
	A)	amygdala	
	B)	thalamus	
	C)	nucleus accumbens	
	D)	hypothalamus	

19.	Research has suggested that a reward deficiency syndrome may contribute to				
	A)	insomnia.			
	B)	substance use disorders.			
		schizophrenia.			
	D)	Parkinson's disease.			
20.	Whi	ch lobe is located behind your forehead?			
	A)	frontal			
	B)	parietal			
	C)	occipital			
	D)	temporal			
21.	Whi	ch lobe is located at the back of your head?			
	A)	frontal			
	B)	parietal			
	C)	occipital			
	D)	temporal			
22.	Which lobe of the cerebral cortex is most directly involved in controlling the facial muscle movements necessary for speaking?				
		occipital			
	A) B)	frontal			
	C)	temporal			
	D)	parietal			
23	The	visual cortex is located in the			
20.	A)	occipital lobes.			
	B)	parietal lobes.			
	C)	temporal lobes.			
	D)	association areas.			
24.	Foll	owing massive damage to his frontal lobes, Phineas Gage was most strikingly			
		litated by			
	A)	muscle spasms.			
	B)	memory loss.			
	C)	auditory hallucinations.			
	D)	irritability.			

25.	5. Brain scans indicate that well-practiced pianists have a larger-than-usual auditory co	
	area	that encodes piano sounds. This best illustrates the impact of
	A)	neurogenesis.
	B)	lateralization.
	C)	brain fissures.
	D)	plasticity.
26.		earch with split-brain patients suggests that the typically constructs the ries people offer to explain their own behaviors.
	A)	corpus callosum
	B)	left cerebral hemisphere
	C)	somatosensory cortex
	D)	right cerebral hemisphere

Answer Key

- 1. C
- 2. A
- 3. B
- 4. A
- 5. A
- 6. C
- 7. D
- 8. A
- 9. D
- 10. A
- 11. D
- 12. B
- 13. A
- 14. C
- 15. D 16. A
- 17. D
- 18. A
- 19. B
- 20. A 21. C
- 22. B
- 23. A
- 24. D
- 25. D
- 26. B

- 1. The basic building blocks of our neural information system are neurons. Explain what neurons are, how they work, and how they communicate or transmit information?
- 2. After Lola began using a street drug to enhance her moods, she discovered that she needed larger and larger doses of the drug in order to feel the drug's effect. Use your understanding of the neurotransmission process to explain Lola's experience.
- 3. Stacey is a single mother of three. Last night she was awoken to loud noises of someone trying to break into her house. Stacey jumped out of bed, woke her children, grabbed her cell phone, and hid in a bedroom closet. Once in the closet she called 911 as quietly as possible. Stacey and her children remained in the closet until the police came. Explain how her sympathetic and parasympathetic nervous systems responded during this time.
- 4. The ancient Greek physician Hippocrates believed that four basic body fluids (blood, black bile, yellow bile, and phlegm) influenced human behavior, emotions, and personality. Use your understanding of the body's rapid and slower chemical communication systems to support or refute the general logic of Hippocrates' theory.
- 5. Compare and contrast the various ways that neuroscientists study the brain.
- 6. Describe specific functions of our older brain structures, which reveal that our brains are responsible for much more than simply our capacity to think.
- 7. Describe how damage to specific structures in your limbic system would likely affect your experience of (a) emotions such as anxiety and elation, (b) motives such as hunger and the sex drive, and (c) memories such as recall of familiar faces or locations.
- 8. After suffering a head injury in an auto accident, Alyssa says that she remembers what her mother looks like, and she can accurately recall many of her mother's distinctive facial features. However, when she is shown pictures of her mother, Alyssa is unable to recognize who it is, even though she can see clearly. Use your understanding of the functioning brain to account for Alyssa's strange pattern of experience.
- 9. Jason and Brandon are studying together for their psychology class. Jason says, "Can you imagine how smart humans would be if they actually used all of their brain? Right now we use only 10 percent of our brain!" Put yourself in Brandon's shoes. How would you respond to Jason?

10.	Describe how an understanding of both a normally functioning brain and a split brain enables us to better appreciate the fact that most information processing takes place outside of conscious awareness.

Answer Key

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9. 10.

1.	The	ancient Greek physician Hippocrates correctly located the mind in the
	A)	brain.
	B)	heart.
	C)	stomach.
	D)	thyroid gland.
2.		proposed that phrenology could reveal mental abilities and character traits?
	A)	Franz Gall
	B)	Plato Aristotle
		Daniel Kish
	D)	
3.	Phre	enology highlighted the presumed functions of
	A)	specific brain regions.
	B)	synaptic gaps.
		endorphins.
	D)	the myelin sheath.
4.		person most likely to suggest that the shape of a person's skull indicates the extent
		hich that individual is argumentative and aggressive would be a
		neurologist. behavior geneticist.
		psychoanalyst.
		phrenologist.
5	A 1+h	lough phrenology incorrectly suggested that bumps on the skull revealed a
٦.		on's character traits, phrenology did succeed in focusing attention on
		synaptic gaps.
		action potentials.
	C)	the localization of function.
	D)	endorphins.
6.	A fo	ocus on the links between brain activity and behavior is most characteristic of
		psychologists.
	A)	psychodynamic
	B)	cognitive
	C)	behavioral
	D)	biological

- 7. Dr. Wolski conducts research on the relationship between neurotransmitter deficiencies and mood states. Dr. Wolski's research focus is most characteristic of
 - A) phrenology.
 - B) biological psychology.
 - C) psychoanalysis.
 - D) social psychology.
- 8. A biological psychologist would be most interested in conducting research on the relationship between
 - A) neurotransmitters and depression.
 - B) skull shape and bone density.
 - C) self-esteem and popularity.
 - D) genetics and eye color.
- 9. To fully appreciate the interaction of neural activity, mental processes, and the functioning of human communities, it is most necessary to recognize that people are
 - A) consciously aware.
 - B) morally accountable.
 - C) biopsychosocial systems.
 - D) products of multiple neural networks.
- 10. The capacity of a brain area to develop new neural pathways as it adjusts to damage is known as
 - A) phrenology.
 - B) dendrites.
 - C) an action potential.
 - D) plasticity.
- 11. Although James lost some manual dexterity following brain damage from a small stroke, the development of new neural pathways enabled him to regain most of his lost manual agility. This best illustrates the value of
 - A) action potentials.
 - B) phrenology.
 - C) plasticity.
 - D) depolarization.

- 12. Plasticity refers to the brain's capacity to change by forming new neural pathways based on
 - A) refractory periods.
 - B) localization of function.
 - C) experience.
 - D) reuptake.
- 13. Many years of intensive guitar practice have led to changes in Karyasa's motor cortex that enable her skilled finger movements. This best illustrates the value of
 - A) reuptake.
 - B) echolocation.
 - C) plasticity.
 - D) localization of function.
- 14. Blind echolocation experts who can use the brain's visual centers to process auditory signals best illustrate the value of
 - A) plasticity.
 - B) reuptake.
 - C) endorphins.
 - D) refractory periods.
- 15. Neurons are best described as
 - A) positively charged sodium and potassium ions.
 - B) chemical molecules that cross the synaptic gap.
 - C) nerve cells that function as the building blocks of the nervous system.
 - D) bundled axon cables that connect the CNS with muscles, glands, and sense organs.
- 16. The part of the neuron that contains the nucleus is called the
 - A) cell body.
 - B) dendrite.
 - C) axon.
 - D) myelin sheath.
- 17. Dendrites are branching extensions of
 - A) neurotransmitters.
 - B) endorphins.
 - C) neurons.
 - D) glial cells.

18.		function of dendrites is to
	A)	receive incoming signals from other neurons.
	B)	release neurotransmitters into the spatial junctions between neurons.
	C) D)	coordinate the activation of the parasympathetic and sympathetic nervous systems control pain through the release of opiate-like chemicals into the brain.
	D)	control pain through the release of optate-like chemicals into the orani.
19.		axon is
	A)	a cell that serves as the basic building block of the nervous system.
	B)	a layer of fatty tissue that encases the fibers of many neurons.
	C)	a molecule that blocks neurotransmitter receptor sites.
	D)	the extension of a neuron that carries messages away from the cell body.
20.	Den	drite is to as axon is to
	A)	sensory neuron; motor neuron
	B)	sodium ion; potassium ion
	C)	signal reception; signal transmission
	D)	central nervous system; peripheral nervous system
21.	The	longest part of a motor neuron is likely to be the
	A)	dendrite.
	B)	axon.
	C)	cell body.
	D)	synapse.
22.	In ti	cansmitting sensory information to the brain, an electrical signal travels from the
		of a single neuron.
	A)	dendrites to the axon to the cell body
	B)	axon to the cell body to the dendrites

- C) dendrites to the cell body to the axon
- D) axon to the dendrites to the cell body
- 23. A myelin sheath is a
 - A) nerve network within the spinal cord that controls physical arousal.
 - B) large band of neural fibers connecting the two adrenal glands.
 - C) layer of fatty tissue encasing the axons of some nerve cells.
 - D) bushy extension of a neuron that conducts impulses toward the cell body.

24.	a(n) A) B)	speed at which a neural impulse travels is increased when the axon is encased by endorphin. myelin sheath. glial cell. synaptic vesicle.
25.	A) B) C)	eneration of the myelin sheath results in reuptake. multiple sclerosis.
26.	coord Thesi A) B) C)	Ild has experienced increasing difficulties with muscle weakness, motor dination, and body balance, which his doctor has diagnosed as multiple sclerosis. The symptoms are most likely to be directly linked with the degeneration of endorphins synaptic gaps. The pituitary gland. The myelin sheath.
27.	ions A)	rons are surrounded by, which guide neural connections and mop up and neurotransmitters. endorphins glial cells hormones agonists
28.	One A) B) C) D)	function of glial cells is to increase the speed of neural impulses. mimic the effects of neurotransmitters. provide nutrients to neurons. stimulate the production of hormones.
29.		ich brain cells play a role in learning, thinking, and memory by communicating neurons? endorphins glial cells agonists myelin cells

30.	 A brief electrical charge that travels down the axon of a neuron is called the A) synapse. B) agonist. C) action potential. D) refractory period.
31.	Mathematical computations by a computer are faster than your quickest mathematical computations because the top speed of a neural impulse is about times slower than the speed of electricity through the wired circuitry in a computer. A) 3 hundred B) 3 thousand C) 3 hundred thousand D) 3 million
32.	An action potential is generated by the movement of through an axon membrane. A) glial cells B) glands C) neurotransmitters D) ions
33.	A state in which the fluid outside an axon has a mostly positive charge and the fluid inside the axon has a mostly negative charge is called A) the action potential. B) the resting potential. C) the refractory period. D) depolarization.
34.	A resting axon's fluid interior has a mostly negative charge thanks to the presence of large ions. A) sodium B) serotonin C) protein D) dopamine

35.	Neurons generate electricity from a chemical process involving the exchange of
	A) ions.
	B) enzymes.
	C) cortisol.
	D) oxytocin.
36.	The resting potential of an axon results from the fact that an axon membrane is
	A) encased by a myelin sheath.
	B) selectively permeable.
	C) sensitive to neurotransmitter molecules.
	D) part of a larger neural network.
37.	The depolarization of a neural membrane creates a(n)
	A) action potential.
	B) myelin sheath.
	C) neural network.
	D) interneuron.
38.	An action potential involves the temporary through an axon membrane.
	A) inflow of positively charged ions B)
	inflow of negatively charged ions C)
	outflow of positively charged ions D)
	outflow of negatively charged ions
20	
<i>3</i> 9.	As positively charged sodium ions enter the axon, flow(s) out to
	repolarize part of the axon.
	A) the action potential
	B) potassium ions
	C) a neural impulse
	D) glial cells
40.	Following depolarization, the sodium/potassium pump transportsions
	a neuron.
	A) positively charged; into
	B) negatively charged; into
	C) positively charged; out of
	D) negatively charged; out of

41.	A) B) C)	minimum level of stimulation required to trigger a neural impulse is called the reflex. threshold. synapse. action potential.
42.	in or A) B) C)	itatory signals to a neuron must exceed inhibitory signals by a minimum intensity order to trigger reuptake. a refractory period. an action potential. selective permeability.
43.	occu A) B) C)	occurs at an electrical charge of about –55 millivolts and the urs at a charge of about +40 millivolts. action potential; resting potential resting potential; threshold threshold; resting potential resting potential; action potential
44.	inter A) B)	regard to the process of neural transmission, a refractory period refers to a time real in which chemical messengers cross synaptic gaps between neurons. a neurotransmitter is reabsorbed by a sending neuron. an action potential cannot occur. an organism reflexively withdraws from a pain stimulus.
45.		easing excitatory signals above the threshold for neural activation will not affect the sity of an action potential. This indicates that a neuron's reaction is inhibited by the myelin sheath. delayed by a refractory period. an all-or-none response. dependent on neurotransmitter molecules.
46.	A no A) B) C) D)	euron's reaction of either firing at full strength or not firing at all is described as an all-or-none response. a refractory period. the resting potential. a reflexive response.

- 47. A slap on the back is more painful than a pat on the back because a slap triggers
 - A) the release of endorphins.
 - B) more intense neural impulses.
 - C) the release of GABA.
 - D) more neurons to fire, and to fire more often.
- 48. Sir Charles Sherrington observed that impulses took an unexpectedly long time to travel a neural pathway. His observation provided evidence for the existence of
 - A) antagonists.
 - B) synaptic gaps.
 - C) interneurons.
 - D) neural networks.
- 49. A synapse is a(n)
 - A) chemical messenger that triggers muscle contractions.
 - B) automatic response to sensory input.
 - C) junction between a sending neuron and a receiving neuron.
 - D) neural cable containing many axons.
- 50. The axon of a sending neuron is separated from the dendrite of a receiving neuron by a
 - A) myelin sheath.
 - B) neural network.
 - C) glial cell.
 - D) synaptic gap.
- 51. When an action potential reaches the end of an axon, an electrical impulse is then converted into a
 - A) myelin sheath.
 - B) reflexive response.
 - C) chemical message.
 - D) glial cell.
- 52. Neuron-produced chemicals that carry messages to other neurons or to muscles and glands are called
 - A) synapses.
 - B) interneurons.
 - C) dendrites.
 - D) neurotransmitters.

53.	The	chemical messengers released into the spatial junctions between neurons are called
	A)	hormones.
	B)	neurotransmitters.
	C)	synapses.
	D)	genes.
54.	Neu	rotransmitters are released from knob-like terminals at the end of the
	A)	dendrites.
	B)	cell body.
	C)	axon.

55. Reuptake refers to the

D) myelin sheath.

- A) movement of neurotransmitter molecules across a synaptic gap.
- B) release of hormones into the bloodstream.
- C) inflow of positively charged ions through an axon membrane.
- D) reabsorption of excess neurotransmitter molecules by a sending neuron.
- 56. The number of neurotransmitter molecules located within a specific synaptic gap would most clearly be reduced by
 - A) an action potential.
 - B) ACh-producing neurons.
 - C) acupuncture.
 - D) reuptake.
- 57. SSRIs relieve depression by partially blocking the reuptake of
 - A) acetylcholine.
 - B) serotonin.
 - C) dopamine.
 - D) glutamate.
- 58. Which neurotransmitter plays the most direct role in learning and memory?
 - A) dopamine
 - B) acetylcholine
 - C) GABA
 - D) oxytocin

59.	Opiate drugs mood and pain. A) depress; increase B) elevate; decrease C) depress; decrease D) elevate; increase
60.	Which of the following is an opiate that elevates mood and eases pain? A) melatonin B) acetylcholine C) morphine D) glutamate
61.	Mr. Averro's symptoms of confusion and memory loss have led his physicians to conclude that he suffers from Alzheimer's disease. His symptoms are most likely to be linked with a deterioration of brain cells that produce the neurotransmitter A) dopamine. B) acetylcholine. C) epinephrine. D) endorphin.
62.	Which neurotransmitter influences movement, learning, attention, and emotion? A) ACh B) dopamine C) serotonin D) GABA
63.	Mr. Anderson suffers from Parkinson's disease and his shaking arm movements are so severe that he has difficulty feeding or dressing himself without help. His symptoms are most likely to be linked with an undersupply of the neurotransmitter A) cortisol. B) dopamine. C) serotonin. D) oxytocin.
64.	Schizophrenia is most closely linked to an oversupply of the neurotransmitter A) dopamine. B) epinephrine. C) acetylcholine. D) serotonin.

65.	An	undersupply of serotonin is most closely linked to
	A)	Alzheimer's disease.
	B)	schizophrenia.
	C)	Parkinson's disease.
	D)	depression.
66	An	undersupply of the major inhibitory neurotransmitter known as is linked
00.		eizures.
	,	glutamate
		GABA
		serotonin
	D)	ACh
67.		bb's severe migraine headaches have led him to seek medical help. It is likely that his
	sym	ptoms are most closely linked to an
	A)	oversupply of GABA.
	B)	undersupply of serotonin.
	C)	oversupply of glutamate.
	D)	undersupply of acetylcholine.
68.	End	orphins are
	A)	•
	B)	
	C)	
	D)	glial cells.
	D)	giai cens.
69	Oni	ate drugs occupy the same receptor sites as
0).	-	•
	A)	serotonin.
	B)	endorphins.
	C)	dopamine.
	D)	epinephrine.
70	T = -	Chan inst played a long housing factball game but facts little factors and it
70.		has just played a long, bruising football game but feels little fatigue or discomfort.
		lack of pain is most likely caused by the release of
	A)	glutamate.
	B)	dopamine.
	C)	acetylcholine.
	D)	endorphins.

- 71. The body's natural production of endorphins is likely to be
 - A) increased by heroin use and increased by vigorous exercise.
 - B) decreased by heroin use and decreased by vigorous exercise.
 - C) increased by heroin use and decreased by vigorous exercise.
 - D) decreased by heroin use and increased by vigorous exercise.
- 72. Jason's intensely uncomfortable withdrawal symptoms following heroin use were probably due in part to a reduction in his body's normal production of
 - A) dopamine. B) epinephrine. C) acetylcholine. D) endorphins.
- 73. A drug molecule that increases a neurotransmitter's action is called a(n)
 - A) antagonist.
 - B) endorphin.
 - C) agonist.
 - D) steroid.
- 74. Sophia has taken an opiate drug that makes her feel "high" by increasing her normal sensation of pleasure. The drug she took was an
 - A) acetylcholine.
 - B) endorphin.
 - C) agonist.
 - D) antagonist.
- 75. Any drug molecule that occupies a neurotransmitter receptor site and blocks the neurotransmitter's effect is a(n)
 - A) glutamate.
 - B) agonist.
 - C) opiate.
 - D) antagonist.
- 76. Any drug molecule that blocks the reuptake of a neurotransmitter is a(n)
 - A) steroid.
 - B) agonist.
 - C) endorphin.
 - D) antagonist.

//.	Endorphin agonists are likely to one's immediate pain, and endorphin	
	antagonists are likely to one's immediate pain.	
	A) decrease; increase	
	B) increase; decrease	
	C) increase; increase	
	D) decrease; decrease	
78.	Botulin poisoning from improperly canned food causes paralysis by blocking the releasof	ise
	A) endorphins.	
	B) epinephrine.	
	C) acetylcholine.	
	D) dopamine.	
79.	Madison is experiencing symptoms of paralysis after eating food contaminated by botulin. Her paralysis is most likely to be relieved by a drug that functions as a(n) ACh agonist.	
	B) serotonin agonist.	
	C) ACh antagonist.	
	D) serotonin antagonist.	
	b) serotonin antagonist.	
80.	The nervous system is	
00.	A) the complete set of glands that secrete hormones into the bloodstream.	
	B) the collection of bundled axons that form neural cables carrying information to body muscles.	
	C) an organism's complete set of automatic reflex responses.	
	D) the electrochemical communication network that includes all the body's neurons.	
81.	The two major divisions of the nervous system are the central and the nervo	ous
	A) autonomic	
	B) sympathetic	
	C) somatic	
	D) peripheral	
	b) peripheral	
82.	The central nervous system consists of	
	A) sensory and motor neurons.	
	B) somatic and autonomic systems.	
	C) the brain and the spinal cord.	
	D) sympathetic and parasympathetic branches.	

83.	Mes	sages are transmitted from your spinal cord to muscles in your hands by the
	<u> </u>	nervous system.
	A)	1 1
		parasympathetic
	C)	sympathetic autonomic
	D)	autonomic
84.	Info	rmation travels through axons that are bundled into the cables we call
	A)	interneurons.
	,	action potentials.
		nerves.
	D)	reflex pathways.
85.		feel the pain of a sprained ankle when relay(s) messages from your
	ankl	le to your central nervous system.
	A)	the myelin sheath
	B)	interneurons C)
	mot	or neurons D)
	sens	sory neurons
86.	Sen	sory neurons are located in the
	A)	synaptic gaps.
	B)	endocrine system.
	C)	peripheral nervous system.
	D)	myelin sheath.
87.	Sen	sory neurons are neurons, and motor neurons are neurons.
	A)	\mathcal{E}
	B)	afferent; efferent
	C)	antagonist; agonist
	D)	efferent; afferent
88.	Neu	rons that function within the brain and spinal cord are called
	A)	sensory neurons.
	B)	interneurons.
	Ć)	endorphins.
	D)	motor neurons.

- 89. Central nervous system neurons that process information between sensory inputs and motor outputs are called
 - A) neurotransmitters.
 - B) interneurons.
 - C) synapses.
 - D) dendrites.
- 90. The vast majority of neurons in the body's nervous system are
 - A) glial cells.
 - B) interneurons. C)

motor neurons. D)

sensory neurons.

- 91. Information is carried from the central nervous system to the body's tissues by
 - A) interneurons.
 - B) sensory neurons.
 - C) motor neurons.
 - D) adrenal glands.
- 92. Some neurons enable you to grasp objects by relaying outgoing messages to the muscles in your arms and hands. These neurons are called
 - A) interneurons.
 - B) sensory neurons.
 - C) neurotransmitters.
 - D) motor neurons.
- 93. Motor neurons transmit signals to
 - A) glands.
 - B) interneurons.
 - C) sensory neurons.
 - D) all of these parts.
- 94. The two divisions of the peripheral nervous system are the
 - A) brain and spinal cord.
 - B) sympathetic nervous system and parasympathetic nervous system.
 - C) endocrine system and circulatory system.
 - D) somatic nervous system and the autonomic nervous system.

95.	A) peripheral B) central C) sympathetic D) parasympathetic
96.	The part of the peripheral nervous system that controls the movements of your mouth and jaws as you eat is called the A) somatic nervous system. B) sympathetic nervous system. C) endocrine system. D) autonomic nervous system.
97.	The part of the peripheral nervous system that controls the glands and the muscles of the internal organs is called the A) somatic nervous system. B) endocrine system. C) sensory nervous system. D) autonomic nervous system.
98.	Messages are transmitted from your spinal cord to your heart muscles by the A) sensory nervous system. B) somatic nervous system. C) central nervous system. D) autonomic nervous system.
99.	Which part of the nervous system controls our glands and internal organ muscles? A) autonomic B) peripheral C) somatic D) skeletal
100.	Stacey is eating dinner while watching her favorite movie. Which part of the nervous system is responsible for stimulating digestion? A) autonomic B) sympathetic C) somatic D) peripheral

101.	Which division of the autonomic nervous system arouses the body and mobilizes its energy in stressful situations? A) the parasympathetic nervous system B) the sympathetic nervous system C) the somatic nervous system D) the central nervous system
102.	You come home one night to find a burglar in your house. Your heart starts racing and you begin to perspire. These physical reactions are triggered by the A) somatic nervous system. B) sympathetic nervous system. C) parasympathetic nervous system. D) sensory nervous system.
103.	An accelerated heartbeat is to a slowed heartbeat as the nervous system is to the nervous system. A) somatic; autonomic B) autonomic; somatic C) sympathetic; parasympathetic D) parasympathetic; sympathetic
104.	The parasympathetic nervous system A) stimulates digestion and slows heartbeat. B) inhibits digestion and accelerates heartbeat. C) stimulates digestion and accelerates heartbeat. D) inhibits digestion and slows heartbeat.
105	After Ralph realized that the shadows outside his window were only the trees in the

- 105. After Ralph realized that the shadows outside his window were only the trees in the yard, his blood pressure decreased and his heartbeat slowed. These physical reactions were most directly regulated by his
 - A) parasympathetic nervous system.
 - B) sympathetic nervous system.
 - C) somatic nervous system.
 - D) sensory nervous system.

- 106. The sympathetic and parasympathetic nervous systems work together to keep you in a steady internal state called
 - A) depolarization.
 - B) reuptake.
 - C) homeostasis.
 - D) the resting potential.
- 107. Neural networks refer to
 - A) the branching extensions of a neuron.
 - B) interrelated clusters of neurons in the central nervous system.
 - C) neural cables containing many axons.
 - D) junctions between sending and receiving neurons.
- 108. The strengthening of the brain's synaptic connections facilitates the formation of
 - A) interneurons.
 - B) endorphins.
 - C) neural networks.
 - D) glial cells.
- 109. A football quarterback can simultaneously make calculations of receiver distances, player movements, and gravitational forces. This best illustrates the activity of multiple
 - A) endocrine glands.
 - B) endorphin agonists.
 - C) neural networks.
 - D) acetylcholine antagonists.
- 110. The part of the central nervous system that carries information from your senses to your brain and motor-control information to your body parts is the
 - A) pituitary gland.
 - B) pancreas.
 - C) spinal cord.
 - D) myelin sheath.
- 111. Simple reflexes are controlled by the
 - A) cerebral cortex.
 - B) spinal cord.
 - C) amygdala
 - D) pons.

- 112. A simple, automatic, inborn response to a sensory stimulus is called a(n)
 - A) neural network.
 - B) action potential.
 - C) neurotransmitter.
 - D) reflex.
- 113. The knee-jerk reflex is controlled by interneurons in the
 - A) synaptic gap.
 - B) spinal cord.
 - C) sympathetic nervous system.
 - D) parasympathetic nervous system.
- 114. In a tragic diving accident, Andrew damaged his spinal cord. As a result, his legs were paralyzed. Andrew's injury was located in his
 - A) somatic nervous system.
 - B) autonomic nervous system.
 - C) sympathetic nervous system.
 - D) central nervous system.
- 115. Aaron consistently exhibits a knee-jerk response without having any sensations of the taps on his knees. Aaron's experience is most indicative of
 - A) botulin poisoning.
 - B) a severed spinal cord.
 - C) a sympathetic nervous system injury.
 - D) a refractory period.
- 116. The endocrine system consists of the
 - A) communication network that includes all the body's neurons.
 - B) regions of the brain that regulate emotion.
 - C) interneurons within the spinal cord.
 - D) glands that secrete hormones.
- 117. Hormones are the chemical messengers of the
 - A) autonomic nervous system.
 - B) somatic nervous system.
 - C) endocrine system.
 - D) central nervous system.

118.	-	is similar to the nervous system in that both produce molecules that n receptors elsewhere in the body.		
		central nervous system		
		endocrine system		
		peripheral nervous system		
	D)	autonomic nervous system		
119.		Stacey and her boyfriend had a fight earlier in the day. While they made up after		
		ight, Stacey still feels angry hours later. Why is this?		
		Central nervous system messages last an extended period.		
		Peripheral nervous system messages last an extended period. Endocrine system messages last an extended period.		
		Parasympathetic nervous system messages last an extended period.		
	_,	- unusympuunout nervous system messanges must um entenueu perrous		
120.		speedy nervous system zips messages by way of neurotransmitters. Endocrine		
		ages, however, are delivered more slowly because hormones travel through		
		myelinated neurons. the bloodstream.		
	,	glial cells.		
		interneurons.		
121.		ovaries in females and the testes in males are part of the		
		somatic nervous system.		
		endocrine system. autonomic nervous system.		
		central nervous system.		
122.		ough brain-damaged patients did not consciously recall having watched a sad film		
		sad emotion persisted thanks to the lingering effects of endorphins.		
		the pain reflex.		
		hormones.		
	D)	the refractory period.		
123.	If a r	professor accused you of cheating on a test, your adrenal glands would probably		
	relea			
	A)	endorphins		
		acetylcholine		
		epinephrine		
	D)	insulin		

124.	The release of epinephrine into the bloodstream is most likely to A) increase blood sugar. B) lower blood pressure. C) stimulate digestion. D) decrease perspiration.
125.	The release of hormones by the adrenal glands is most likely to trigger A) depression. B) the fight-or-flight response. C) the pain reflex. D) a refractory period.
126.	The endocrine gland that triggers the fight-or-flight response is the A) hypothalamus. B) parathyroid. C) pancreas. D) adrenal gland.
127.	The endocrine gland that helps regulate the level of calcium in the blood is the A) hypothalamus. B) parathyroid. C) pancreas. D) adrenal gland.
128.	The endocrine gland that helps regulate the level of sugar in the blood is the A) hypothalamus. B) parathyroid. C) pancreas. D) adrenal gland.
129.	The brain region that controls the pituitary gland is the A) hypothalamus. B) parathyroids. C) pancreas. D) adrenal glands.

130.	The hypothalamus influences the to send messages to the
	A) adrenal glands; pancreas
	B) pituitary; endocrine glands
	C) motor neurons; sensory neurons
	D) somatic nervous system; autonomic nervous system
131.	At the age of 22, Mrs. LaBlanc was less than 4 feet tall. Her short stature was
	probably influenced by the lack of a growth hormone produced by the
	A) pancreas.
	B) thyroid.
	C) adrenal gland.
	D) pituitary gland.
122	During a laboratory game those given a need soviet of such as then a
132.	During a laboratory game, those given a nasal squirt of rather than a placebo were more likely to trust strangers with their money.
	A) epinephrine
	B) oxytocin
	C) dopamine
	D) serotonin
133.	Kendra and several classmates are studying for an upcoming exam. As they talk, the
	level of oxytocin in Kendra's bloodstream begins to rise. This is most likely to lead
	Kendra to experience increased feelings of social
	A) irritation.
	B) envy.
	C) trust.
	D) anxiety.
134.	Oxytocin is secreted by the
	A) pancreas.
	B) thyroid gland.
	C) pituitary gland.
	D) adrenal glands.
135.	The master gland of the endocrine system is the
	A) thyroid gland.
	, ,
	,
	D) pancreas.
	B) thyroid gland.C) pituitary gland.
135.	The master gland of the endocrine system is the A) thyroid gland.
	B) adrenal gland.
	C) pituitary gland.
	D) pancreas.

136.	The release of cortisol into the bloodstream is most likely to A) increase blood sugar. B) lower blood pressure. C) stimulate digestion. D) decrease perspiration.
137.	Surgical destruction of brain tissue is called a(n) A) EEG. B) diffusion spectrum. C) lesion. D) MRI.
138.	A technique that allows neuroscientists to control the activity of individual neurons is called A) lesioning. B) optogenetics. C) an EEG. D) a MEG.
139.	An amplified recording of the waves of electrical activity that sweep across the surface of the brain is called a(n) A) fMRI. B) EEG. C) PET scan. D) MRI.
140.	Which technique measures fields from the brain's natural electrical activity? A) lesion B) optogenetics C) EEG D) MEG
141.	The release of gamma waves from radioactive blood sugar in different regions of the brain is detected by A) an MRI scan. B) an EEG.

C) a PET scan.D) fMRI.

142.	To identify which of Lucy's brain areas was most active when she talked, neuroscientists gave her a temporarily radioactive form of glucose and a(n) A) fMRI. B) PET scan. C) EEG. D) MRI scan.
143.	Magnetic resonance imaging uses magnetic fields and to produce computer-generated images of soft tissue. A) radio waves B) brain lesions C) a radioactive form of glucose D) electrodes placed on the scalp
144.	The best way to detect enlarged fluid-filled brain regions in some patients who have schizophrenia is to use a(n) A) EEG. B) MRI. C) PET scan. D) brain lesion.
145.	To detect Mr. Ziegler's loss of brain tissue from a degenerative disease, his physicians are most likely to request that he receive a(n) A) EEG. B) MRI scan. C) brain lesion. D) PET scan.
146.	To identify which specific brain areas are most active during a particular mental task, researchers would be most likely to make use of a(n) A) fMRI. B) microelectrode insertion. C) MRI. D) brain lesion.

147.	When the brain is unoccupied, an fMRI indicates that blood continues to flow via a web of brain regions called the A) reticular formation. B) nucleus accumbens. C) default network. D) diffusion spectrum.
148.	Dr. Rapport conducts research to better understand how different regions of the brain work together. He is also interested in the causes of psychological disorders. Which of the following techniques is he likely to implement in his research? A) analyses of functional connectivity B) optogenetics C) MEG D) PsychENCODE
149.	The project enables researchers to examine differences between the brains of healthy people and those with various disorders. A) optogenetics B) diffusion spectrum imaging C) PsychENCODE D) MRI
150.	The \$40 million Human Connectome Project harnesses technology to map neural connections across long distances within the brain. A) positron emission tomography B) electroencephalogram C) diffusion spectrum imaging D) microelectrode insertion
151.	 The sequence of brain regions from the oldest to newest is A) limbic system, brainstem, cerebral cortex. B) brainstem, cerebral cortex, limbic system. C) limbic system, cerebral cortex, brainstem. D) brainstem, limbic system, cerebral cortex.

152.	Human brain complexity arises from new systems built on top of older ones. The remnants of humanity's most distant past involve components of the A) amygdala. B) hippocampus. C) brainstem. D) hypothalamus.
153.	Basic automatic survival functions, such as heartbeat and breathing, are controlled by the A) pons. B) brainstem. C) thalamus. D) reticular formation.
154.	The part of the brainstem that controls heartbeat and breathing is called the A) cerebellum. B) medulla. C) amygdala. D) thalamus.
155.	The part of the brainstem that helps to coordinate movements is called the A) nucleus accumbens. B) hippocampus. C) amygdala. D) pons.
156.	Brandon has trouble sleeping regularly. He has difficulty falling asleep and then staying asleep. On average, he gets 4 hours of sleep each night. His may not be functioning properly. A) thalamus B) hypothalamus C) reticular formation D) pons
157.	If your is destroyed, the left side of your brain could not control the movements of your right hand. A) brainstem B) hippocampus C) amygdala D) hypothalamus

158.	Which brain structure receives information from all of the senses except smell?	
	A) hippocampus	
	B) amygdala	
	C) pons	
	D) thalamus	
159.	The brain structure that acts as a sensory control center is the	
	A) medulla.	
	B) cerebellum.	
	C) thalamus.	
	D) hippocampus.	
160.	The relays messages between lower brain centers and the cerebral cortex	
	A) thalamus	
	B) hypothalamus	
	C) reticular formation	
	D) pons	
161.	Jason lost his sense of taste due to a tumor that caused damage to a structure located	l on
	top of his brainstem. This structure is known as the	
	A) amygdala.	
	B) thalamus.	
	C) medulla.	
	D) hippocampus.	
162.	Information from higher brain regions is transmitted to the medulla through the	
	A) hypothalamus.	
	B) hippocampus.	
	C) amygdala.	
	D) thalamus.	
163.	The reticular formation is a nerve network that travels from the into the	
	thalamus.	
	A) spinal cord	
	B) amygdala	
	C) hypothalamus	
	D) cerebellum	

164.	Which region of your brainstem plays a role in arousing you to a state of alertness when, for example, you accidentally stumble over another person's misplaced pair of shoes? A) reticular formation B) hypothalamus C) amygdala D) hippocampus
165.	Severing a cat's reticular formation from higher brain regions causes the cat to A) become violently aggressive. B) cower in fear. C) experience convulsive seizures. D) lapse into a coma.
166.	Which baseball-sized structure at the rear of the brainstem serves many functions, including helping you to judge time and to discriminate sounds and textures? A) amygdala B) cerebellum C) hippocampus D) corpus callosum
167.	Along with the basal ganglia, the enables nonverbal learning and skill memory. A) amygdala B) cerebellum C) hypothalamus D) nucleus accumbens
168.	With assistance from the, the cerebellum coordinates A) hypothalamus; hunger and thirst B) amygdala; heartbeat and breathing C) pons; voluntary movement D) medulla; fear and rage
169.	After Kato's serious motorcycle accident, doctors detected damage to his cerebellum. Kato is most likely to have difficulty A) reading printed words. B) understanding what others are saying. C) tasting the flavors of foods. D) playing his guitar.

- 170. Conscious information processing is LEAST likely to be required for the automatic physical survival functions regulated by the
 A) hippocampus.
 B) thalamus.
 C) brainstem.
 D) amygdala.
- 171. A neural system at the border between the brainstem and the cerebral hemispheres is known as the
 - A) pons.
 - B) limbic system.
 - C) reticular formation.
 - D) medulla.
- 172. The amygdala consists of emotion-linked neural clusters in the
 - A) brainstem.
 - B) reticular formation.
 - C) limbic system.
 - D) cerebellum.
- 173. The amygdala is responsible for the regulation of
 - A) survival mechanisms.
 - B) hunger.
 - C) balance.
 - D) emotion.
- 174. S. M. is a patient who has been called "the woman with no fear," even of being threatened with a gun. Her fearlessness is best attributed to damage to her
 - A) pons.
 - B) cerebellum.
 - C) hypothalamus.
 - D) amygdala.
- 175. To demonstrate that brain stimulation can make a rat violently aggressive, a neuroscientist should electrically stimulate the rat's
 - A) reticular formation.
 - B) cerebellum.
 - C) medulla.
 - D) amygdala.

176.	Which limbic system structure regulates thirst and body temperature? A) medulla B) amygdala C) hippocampus D) hypothalamus
177.	The brain structure that provides a major link between the nervous system

- 177. The brain structure that provides a major link between the nervous system and the endocrine system is the
 - A) cerebellum.
 - B) amygdala.
 - C) reticular formation.
 - D) hypothalamus.
- 178. A brain tumor caused extensive damage to Mr. Thorndike's hypothalamus. It is most likely that he may suffer a loss of
 - A) visual perception.
 - B) muscular coordination.
 - C) sexual motivation.
 - D) language comprehension.
- 179. James Olds and Peter Milner located reward centers in the brain structure known as the
 - A) hypothalamus.
 - B) cerebellum.
 - C) medulla.
 - D) amygdala.
- 180. Animal research has revealed a general reward system related to the release of the neurotransmitter
 - A) acetylcholine.
 - B) GABA.
 - C) dopamine.
 - D) epinephrine.
- 181. A limbic system reward center located in front of the hypothalamus is called the
 - A) amygdala.
 - B) reticular formation.
 - C) pons.
 - D) nucleus accumbens.

182.	Our pleasurable "chills" response to a favorite piece of music is facilitated by the release of the neurotransmitter A) GABA. B) cortisol. C) ACh. D) dopamine.
183.	Substance use disorders may stem from malfunctioning reward centers in the A) thalamus. B) cerebellum. C) reticular formation. D) limbic system.
184.	Some researchers believe that a reward deficiency syndrome contributes to A) schizophrenia. B) amygdala lesions. C) muscular paralysis. D) substance use disorders.
185.	The neural center in the limbic system that processes explicit memories for storage is called the A) hypothalamus. B) thalamus. C) hippocampus. D) medulla.
186.	Those who survive a hippocampal brain tumor in childhood are likely to have difficulty in their adulthood. A) getting adequate sleep B) remembering new information C) maintaining body balance while walking D) experiencing feelings of fear
187.	After experiencing a series of head injuries while playing professional football, Arie has begun to struggle with remembering the names of friends and even family members. His memory difficulties are most likely to be due to damage to his A) hippocampus. B) medulla. C) amygdala. D) hypothalamus.

- 188. About 85 percent of human brain weight comes from the A) hippocampus. B) cerebrum. C) corpus callosum. D) frontal lobes. 189. The cerebral cortex is the covering layer of the A) brainstem. B) corpus callosum. C) hippocampus. D) cerebrum. 190. The brain's thin surface layer, which serves as your body's ultimate information-processing center, is the A) limbic system. B) cerebellum. C) corpus callosum. D) cerebral cortex. 191. Your conscious awareness of your own name and self-identity depends primarily on the normal functioning of your A) somatosensory cortex. B) amygdala. C) motor cortex. D) cerebral cortex. 192. Which portion of the cerebral cortex lies directly behind the forehead and is involved in speaking, muscle movements, and making plans? A) temporal lobes B) frontal lobes C) parietal lobes D) occipital lobes
 - D) frontal lobes

A) parietal lobesB) temporal lobesC) occipital lobes

193. Which portion of the cerebral cortex is most closely adjacent to the ears?

194.	Which portion of the cerebral cortex is located nearest the top of the head just behind the frontal lobes?			
	A) occipital lobes			
	B) hippocampus			
	C) parietal lobes			
	D) temporal lobes			
195.	Which lobes of the brain receive the input that enables you to feel someone scratching			
	your back?			
	A) parietal			
	B) temporal			
	C) occipital D) frontal			
	b) Holitai			
196.	The surgical removal of a large tumor from Dane's occipital lobe resulted in extensive loss of brain tissue. Dane is most likely to suffer some loss of A) muscular coordination. B) visual perception. C) speaking ability.			
	D) pain sensations.			
197.	Auditory stimulation is processed in the lobes.			
	A) occipital			
	B) temporal C) frontal			
	C) frontal D) parietal			
198.	The occipital lobes are to as the temporal lobes are to			
	A) hearing; sensing movement			
	B) seeing; sensing touch			
	C) seeing; hearing D) speaking; hearing			
	2) speaking, nearing			
199.	Applying mild electrical stimulation to parts of an animal's cortex, Gustav Fritsch			
	and Edward Hitzig discovered what is now called the			
	A) motor cortex.			
	B) visual cortex. C) auditory cortex.			
	D) somatosensory cortex.			
	,			

200.	A) B) C)	motor cortex is located in the occipital temporal frontal parietal	lobes.
201.	A) B) C)	boratory cat could be made to twitch its lobes of its cerebral cortex. temporal occipital frontal parietal	whiskers by direct stimulation of the
202.		garet had a stroke that damaged the right ing her left arm, not her right arm. This somatosensory cortex is responsible for motor cortex on the right side of the bra parts on the right side of the body. association areas of the brain control motor cortex on the right side of the bra parts on the opposite side of the body.	phantom limb movements. in controls movements of specific body ovements of all body parts.
203.		indicates that the somatosensory cortex is responsible for	ovements of all body parts.
204.	elect A) B) C)	ng open-brain surgery, Adam's left anklarically stimulated a specific area within left frontal lobe. right frontal lobe. left parietal lobe. right parietal lobe.	9

205.	Which of the following body parts is associated with the greatest amount of brain tissue in the motor cortex? A) arms B) face C) trunk D) knees
206.	Using a brain-computer interface, some paralyzed people may be able to move a robotic limb simply by thinking about moving it. This best illustrates A) neurogenesis. B) constraint-induced therapy. C) cognitive neural prosthetics. D) neural plasticity.
207.	In a clinical trial of brain-implanted microelectrodes, a paralyzed 25-year-old man constructed shapes on a computer screen by activating neurons in his A) somatosensory cortex. B) occipital lobes. C) motor cortex. D) hippocampus.
208.	Brandon had a stroke a year ago; as a result, his left arm is paralyzed. The technique that may enable him to move his paralyzed arm by imagining that he is doing so is called A) analyses of functional connectivity. B) optogenetics.

- A) sight.
- B) hearing.
- C) touch.
- D) smell.
- 210. Which part of your brain is essential for receiving information that you are moving your legs?
 - A) corpus callosum

C) machine learning.D) PsychENCODE.

- B) hippocampus
- C) somatosensory cortex
- D) temporal lobes

211.	Which of the following body parts is associated with the greatest amount of brain tissue in the somatosensory cortex? A) toes B) knees C) neck D) lips
212.	 Falsely hearing a sound in the absence of any external stimulus is called A) neurogenesis. B) a split-brain condition. C) an hallucination. D) an fMRI.
213.	The auditory hallucinations experienced by people with schizophrenia are most closely linked with the activation of areas in their A) motor cortex. B) parietal lobes. C) temporal lobes. C) temporal lobes. D) somatosensory cortex.
214.	The most extensive regions of the brain are involved in higher mental functions such as memory and reasoning. These regions are called the A) somatosensory cortex. B) hippocampus. C) corpus callosum. D) association areas.
215.	 Knowing that you will be punished for breaking Mom's favorite dish is a function of the A) somatosensory cortex. B) corpus callosum. C) association areas. D) motor cortex.
216.	The association areas are located in the A) brainstem. B) thalamus. C) hippocampus. D) cerebral cortex.

- 217. The fact that the ability to interpret and integrate sensory information with stored memories is lost following damage to the ______ disconfirms the claim that we really use only 10 percent of our brain.
 - A) motor cortex
 - B) amygdala
 - C) hypothalamus
 - D) association areas
- 218. Which of the following is NOT true of the brain's association areas?
 - A) More intelligent animals have larger association areas.
 - B) Lower-level species have smaller association areas.
 - C) The association areas link sensory information with stored memories.
 - D) More intelligent animals have smaller association areas.
- 219. Which of the following would have the largest motor areas in the brain?
 - A) a rat
 - B) a chimpanzee
 - C) a dog
 - D) a human
- 220. John and Samantha are studying for their upcoming psychology class when John states, "I wonder what it would be like if we used all of our brain, instead of only 10 percent of it." Which of the following would be the best response by Samantha?
 - A) "I completely agree. It is similar to how humans use lungs. We use only 20 percent of our lungs."
 - B) "Scientists may never know how much of our brain we actually use."
 - C) "I know. It is amazing. There is a 90 percent chance that head trauma would not impact parts of the brain that we actually use."
 - D) "That is actually a myth. We use all of our brain."
- 221. The classic case of railroad worker Phineas Gage best illustrated that frontal lobe damage can
 - A) trigger muscle spasms.
 - B) enhance moral reasoning skills.
 - C) alter one's personality.
 - D) facilitate neurogenesis.

222.	People's moral judgments are most likely to seem unrestrained by normal emotions if they have suffered damage to their A) hippocampus. B) somatosensory cortex. C) corpus callosum. D) frontal cortex.
223.	Cecil Layton displayed increased impulsivity and lowered intelligence test performance following damage to his left lobe in a sawmill accident. A) parietal B) occipital C) frontal D) temporal
224.	Mathematical and spatial reasoning capacities are especially likely to be linked with association areas in the A) parietal lobes. B) temporal lobes. C) occipital lobes. D) frontal lobes.
225.	Stimulation of produced in patients a feeling of wanting to move an upper limb but without any limb movement. A) the motor cortex B) an association area C) the corpus callosum D) the somatosensory cortex
226.	The inability to recognize familiar faces even though one can clearly see and describe features of the faces is associated with damage to the right lobe. A) frontal B) parietal C) occipital D) temporal

- 227. After he suffered a stroke, Mr. Santore's physical coordination skills and responsiveness to sensory stimulation quickly returned to normal. Unfortunately, however, he could no longer figure out how to find his way around his neighborhood. It is most likely that Mr. Santore suffered damage to
 - A) the amygdala.
 - B) the somatosensory cortex.
 - C) the motor cortex.
 - D) an association area.
- 228. Terri was in a serious car accident when she was only 13 months old and suffered brain damage. Her brain recovered because of the aspect of early brain development referred to as
 - A) cerebral cortex maturation.
 - B) plasticity.
 - C) folding of the four lobes.
 - D) localization of simple brain functions.
- 229. The benefits of brain plasticity are most clearly demonstrated in
 - A) children who have had a cerebral hemisphere surgically removed.
 - B) people paralyzed by a severed spinal cord.
 - C) individuals with Alzheimer's disease.
 - D) split-brain patients.
- 230. By restraining the use of Bruce's left hand, doctors helped him to use and improve the coordination skills of his right hand. The doctors employed a technique known as
 - A) cognitive neural prosthetics.
 - B) neurogenesis.
 - C) lateralization.
 - D) constraint-induced therapy.
- 231. Brain plasticity may contribute to the effectiveness of
 - A) neurogenesis.
 - B) cognitive neural prosthetics.
 - C) constraint-induced therapy.
 - D) MRI scans.

- 232. The visual cortex is activated when blind people read Braille. This best illustrates
 - A) plasticity.
 - B) cognitive neural prosthetics.
 - C) lateralization.
 - D) neurogenesis.
- 233. Areas of the visual cortex that normally help people to see may aid blind people to read Braille by processing tactile sensations from the fingers. This best illustrates the value of
 - A) plasticity.
 - B) brain fissures.
 - C) lateralization.
 - D) neurogenesis.
- 234. If a slow-growing left-hemisphere tumor disrupts language, the right hemisphere may take over this language functioning. This best illustrates the value of
 - A) the split brain.
 - B) neurogenesis.
 - C) brain fissures.
 - D) plasticity.
- 235. Among deaf people, a temporal lobe area normally dedicated to hearing may begin to process visual signals. This best illustrates the impact of
 - A) plasticity.
 - B) neurogenesis.
 - C) lateralization.
 - D) cognitive neural prosthetics.
- 236. After Clark's left hand was amputated, the somatosensory cortex area that had processed sensations of touch from that hand gradually began to process touch sensations from his lower left arm. This best illustrates the consequences of
 - A) neurogenesis.
 - B) plasticity.
 - C) lateralization.
 - D) the split brain.
- 237. The process of forming new neurons within the brain is called
 - A) lateralization.
 - B) cognitive neural prosthetics.
 - C) neurogenesis.
 - D) plasticity.

238.	Thanks to the release of carbon isotopes in nuclear weapons tests, researchers have been able to detect the process of neurogenesis in the A) motor cortex. B) corpus callosum. C) somatosensory cortex. D) hippocampus.
239.	Physical exercise, sex, sleep, and nonstressful but stimulating environments are natural ways to promote A) lateralization. B) neurogenesis. C) diffusion spectrum imaging. D) cognitive neural prosthetics.
240.	There is some hope that discovered in the human embryo can someday be used to generate replacements for damaged neurons in the brain. A) gene fragments B) somatosensory neurons C) optic nerves D) stem cells
241.	A tendency for the brain's left and right hemispheres to serve different functions is called A) hemispherectomy. B) lateralization. C) neurogenesis. D) plasticity.
242.	The control of speech production by the left rather than the right hemisphere of the brain best illustrates A) neurogenesis. B) lateralization. C) cognitive neural prosthetics. D) plasticity.

243.	Damage to the left cerebral hemisphere is most likely to reduce people's ability to A) solve arithmetic problems. B) copy drawings. C) recognize faces. D) recognize familiar melodies.
244.	 The corpus callosum is a wide band of axon fibers that A) enables the left hemisphere to control the right side of the body. B) transmits information between the cerebral hemispheres. C) controls the glands and muscles of the internal organs. D) transfers neural impulses from the somatosensory cortex to the motor cortex.
245.	Those whose corpus callosum is surgically severed are said to be patients with A) brain plasticity. B) brain fissures. C) neurogenesis. D) split brains.
246.	Neurosurgeons have severed the corpus callosum in human patients in order to reduce A) lateralization. B) epileptic seizures. C) neural plasticity. D) neurogenesis.
247.	Optic nerves transmit information from the visual field of to the left cerebral hemisphere. A) left; only the left eye B) right; only the right eye C) left; only the right eye D) right; both the right and left eyes
248.	A picture of a dog is briefly flashed in the left visual field of a split-brain patient. At the same time a picture of a boy is flashed in the right visual field. In identifying what she saw, the patient would be most likely to A) use her left hand to point to a picture of a dog. B) verbally report that she saw a dog. C) use her left hand to point to a picture of a boy. D) verbally report that she saw a boy.

249.		The ability to simultaneously copy different figures with the right and left hands is most characteristic of those whose has been cut.				
	A)	somatosensory cortex				
	B)	hippocampus				
	C)	corpus callosum				
	D)	motor cortex				
250.	When a person speaks, brain waves and bloodflow are especially likely to reveal increased activity in the					
	,	cerebellum.				
	,	left hemisphere.				
	,	hippocampus.				
	D)	right hemisphere.				
251.		eurosurgeon begins to sedate the entire left cerebral hemisphere of a patient, who				
		astructed to count aloud with both arms in the air. What will most likely happen?				
	A)	The patient's left arm will fall limp, and the patient will become speechless.				
	B) C)	The patient's right arm will fall limp, and the patient will become speechless. The patient's left arm will fall limp, but the patient will continue counting aloud.				
	D)	The patient's right arm will fall limp, but the patient will continue counting aloud.				
252.		f people who use sign language typically				
	A)	demonstrate greater mathematical competence than hearing persons.				
	B)	process language in their left cerebral hemisphere.				
	C) D)	have better communication skills than hearing persons. have a smaller corpus callosum than hearing persons.				
	D)	nave a smaller corpus canosum than hearing persons.				
253.	In a recent car accident, Tamiko sustained damage to his right cerebral hemisphere. This					
	_	ry is most likely to reduce Tamiko's ability to				
	A)	facially express emotions.				
	B)	solve arithmetic problems.				
	C) D)	understand simple verbal requests. correctly pronounce familiar words.				
	D)	correctly pronounce laminar words.				
254.		People who suffer partial paralysis as a result of damage to thewill sometimes				
		inately claim they can move a paralyzed limb.				
	A)	right cerebral hemisphere				
		corpus callosum				
		left cerebral hemisphere				
	D)	occipital lobes				

- 255. People's failure to recognize themselves in a mirror is most likely to be associated with damage to the
 - A) somatosensory cortex.
 - B) left cerebral hemisphere.
 - C) corpus callosum.
 - D) right cerebral hemisphere.
- 256. In Roger Sperry's view, the brain creates and controls the mind, which in turn influences the brain. Sperry understands the mind and brain as a
 - A) cognitive neural prosthetics.
 - B) holistic system.
 - C) reward center.
 - D) complex machine.

Answer Key

- 1. A
- 2. A
- 3. A
- 4. D
- 5. C
- 6. D
- 7. B
- 8. A
- 9. C
- 10. D
- 11. C
- 12. C
- 13. C
- 14. A
- 15. C
- 16. A
- 17. C
- 18. A
- 19. D
- 20. C
- 21. B
- 22. C
- 23. C
- 24. B
- 25. B
- 26. D
- 27. B
- 28. C
- 29. B
- 30. C
- 31. D
- 32. D
- 33. B
- 34. C
- 35. A
- 36. B
- 37. A
- 38. A
- 39. B
- 40. C 41. B
- 42. C
- 43. D
- 44. C

- 45. C
- 46. A
- 47. D
- 48. B
- 49. C
- 50. D
- 51. C
- 52. D
- 53. B
- 54. C
- 55. D
- 56. D
- 57. B
- 58. B
- 59. B
- 60. C
- 61. B
- 62. B
- 63. B
- 64. A
- 65. D 66. B
- 67. C
- 68. A
- 69. B 70. D
- 71. D
- 72. D
- 73. C
- 74. C
- 75. D
- 76. B
- 77. A
- 78. C
- 79. A
- 80. D
- 81. D
- 82. C
- 83. A 84. C
- 85. D 86. C
- 87. B
- 88. B
- 89. B
- 90. B

- 91. C
- 92. D
- 93. A
- 94. D
- 95. A
- 96. A
- 97. D
- 98. D
- 99. A
- 100. A
- 101. B
- 102. B
- 103. C
- 104. A 105. A
- 106. C
- 107. B
- 108. C
- 109. C
- 110. C
- 111. B
- 112. D
- 113. B
- 114. D
- 115. B
- 116. D
- 117. C
- 118. B
- 119. C
- 120. B
- 121. B
- 122. C
- 123. C
- 124. A
- 125. B
- 126. D
- 127. B
- 128. C
- 129. A
- 130. B
- 131. D
- 132. B
- 133. C
- 134. C
- 135. C
- 136. A

- 137. C
- 138. B
- 139. B
- 140. D
- 141. C
- 142. B
- 143. A
- 144. B
- 145. B
- 146. A
- 147. C
- 148. A
- 149. C
- 150. C
- 151. D
- 152. C
- 153. B
- 154. B
- 155. D
- 156. D
- 157. A
- 158. D
- 159. C
- 160. A
- 161. B
- 162. D
- 163. A
- 164. A
- 165. D
- 166. B
- 167. B
- 168. C
- 169. D
- 170. C
- 171. B
- 172. C
- 173. D
- 174. D
- 175. D
- 176. D
- 177. D
- 178. C
- 179. A
- 180. C
- 181. D
- 182. D

- 183. D
- 184. D
- 185. C
- 186. B
- 187. A
- 188. B
- 189. D
- 190. D
- 191. D
- 192. B
- 193. B
- 194. C
- 195. A
- 196. B
- 197. B
- 198. C
- 199. A
- 200. C
- 201. C
- 202. D
- 203. D
- 204. B
- 205. B
- 206. C
- 207. C
- 208. C
- 209. C
- 210. C
- 211. D
- 212. C
- 213. C
- 214. D
- 215. C
- 216. D
- 217. D
- 218. D
- 219. D
- 220. D
- 221. C
- 222. D
- 223. C 224. A
- 225. B
- 226. D
- 227. D 228. B

- 229. A
- 230. D
- 231. C
- 232. A
- 233. A
- 234. D
- 235. A
- 236. B
- 237. C
- 238. D
- 239. B
- 240. D
- 241. B
- 242. B
- 243. A
- 244. B
- 245. D
- 246. B
- 247. D
- 248. D
- 249. C
- 250. B
- 251. B
- 252. B
- 253. A
- 254. A
- 255. D
- 256. B

- 1. Which of the following CANNOT be attributed to phrenology?
 - A) the need for critical thinking
 - B) attention on the localization of function
 - C) the division of the brain into two hemispheres
 - D) the need for scientific analysis
- 2. Kareem's years of experience navigating the streets of a very large city as a taxi driver have resulted in changes in his brain's spatial memory centers that support his detailed street location memory. This best illustrates the value of
 - A) refractory periods.
 - B) plasticity.
 - C) echolocation.
 - D) reuptake.
- 3. A neuron is best described as a(n)
 - A) ion.
 - B) cell.
 - C) sheath.
 - D) molecule.
- 4. Which of the following is most clearly characterized by a temporary inflow of positively charged sodium ions through an axon membrane?
 - A) reuptake
 - B) an action potential
 - C) a refractory period
 - D) a resting potential
- 5. Drugs that block the reuptake of serotonin will thereby increase the concentration of serotonin molecules in the
 - A) axon terminals.
 - B) synaptic gaps.
 - C) glial cells.
 - D) endocrine glands.
- 6. Natural, opiate-like neurotransmitters linked to pain control are called
 - A) ACh agonists.
 - B) dendrites.
 - C) morphine antagonists.
 - D) endorphins.

	A) ACh antagonist.B) dopamine antagonist.C) ACh agonist.D) dopamine agonist.	
8.	Jacob has just gotten an interview for a job he really wants. With his excitement, his heartbeat increases, his blood pressure rises, and he begins to perspire. Which nervous system is responsible for these physiological changes? A) autonomic B) sympathetic C) somatic D) parasympathetic	
9.	Neurons that enable people to throw a baseball by relaying messages from their central nervous system to their skeletal muscles are called A) interneurons. B) sensory neurons. C) glial cells. D) motor neurons.	
10.	 The vast majority of neurons in the body's information system are A) glial cells. B) interneurons. C) motor neurons. D) sensory neurons. 	
11.	The nervous system that arouses and expends energy is the nervous system. A) autonomic B) sympathetic C) somatic D) parasympathetic	
12.	As needed, the sympathetic nervous system blood sugar levels and the pupils of the eyes. A) lowers; dilates B) raises; contracts C) lowers; contracts D) raises; dilates	

7. Botox injections smooth facial wrinkles because botulin is a(n)

- 13. While listening to operatic solos, musicians process the lyrics and the tunes in separate brain areas. This most clearly illustrates the functioning of different
 A) neurotransmitters.
 B) parathyroids.
 C) neural networks.
 D) reflex systems.
- 14. The endocrine system consists of
 - A) myelin sheaths.
 - B) neural networks.
 - C) interneurons.
 - D) glands.
- 15. Which hormone enables contractions associated with birthing and milk flow during nursing?
 - A) insulin
 - B) cortisol
 - C) oxytocin
 - D) epinephrine
- 16. Which of the following would be particularly useful for detecting the brain areas that are most active as a person performs mathematical calculations?
 - A) a brain lesion
 - B) enlarged ventricles
 - C) a PET scan
 - D) an MRI scan
- 17. The brain's oldest region is the
 - A) hippocampus.
 - B) amygdala.
 - C) brainstem.
 - D) hypothalamus.
- 18. Which brain structure relays information from the eyes to the visual cortex?
 - A) thalamus
 - B) amygdala
 - C) medulla
 - D) cerebellum

19.	After suffering an accidental brain injury, Kira has difficulty walking in a smooth and coordinated manner. She has probably suffered damage to her A) amygdala B) hypothalamus. C) cerebellum. D) corpus callosum.
20.	The limbic system structure that regulates hunger is called the A) thalamus. B) amygdala. C) hippocampus. D) hypothalamus.
21.	 The limbic system's hippocampus A) coordinates body movement and balance. B) regulates hunger and thirst. C) plays a central role in fear and rage. D) helps process explicit memories for storage.
22.	Which portion of the cerebral cortex is most directly involved in making plans and formulating moral judgments? A) occipital lobes B) frontal lobes C) temporal lobes D) parietal lobes
23.	Where is the temporal lobe located? A) behind the forehead B) at the back of the head C) on the top of the head D) just above the ears
24.	The brain devotes more tissue within the for body areas requiring the most precise movement control such as the fingers. A) hippocampus B) corpus callosum C) occipital lobes D) motor cortex

25.	are known as				
	A)	the hippocampus.			
	B)	the corpus callosum.			
	C)	•			
	D)	association areas.			
26.	signa A) B)	ou lose a foot, the somatosensory cortex that received its input will begin to pick up als from the formerly adjoined leg. This best illustrates the value of neurogenesis. lateralization. plasticity.			
	D)	hemispherectomy.			
27.	Speech is processed primarily in the right hemisphere by the of those who are				
	_	handed and by the of those who are right-handed.			
	A)	minority; minority			
	B)	majority; majority			
	C)	minority; majority			
	D)	majority; minority			
28.	The right hemisphere of Julie's brain is better than her left hemisphere at recognizing				
		al expressions of emotion. This best illustrates			
	,	neurogenesis.			
		plasticity.			
	,	lateralization.			
	D)	brain fissures.			

Answer Key

- 1. C
- 2. B
- 3. B
- 4. B
- 5. B
- 6. D
- 7. A
- 8. B
- 9. D
- 10. B
- 11. B
- 12. D
- 13. C
- 14. D
- 15. C
- 16. C
- 17. C
- 18. A
- 19. C
- 20. D
- 21. D
- 22. B
- 23. D
- 24. D
- 25. D
- 26. C
- 27. A 28. C